

C. Amendments to the Claims

1-20 (Cancelled.)

21 (New). A method for generating hydrogen gas, the method comprising the steps of:

- providing a reservoir of hydroxide solution;
- heating the hydroxide solution within said reservoir to raise the temperature of the hydroxide solution to approximately 180 degrees Fahrenheit;
- providing an upright gas generating tank in fluid flow communication with said reservoir with a gas inlet defined in its top;
- equipping said generating tank with a plurality of internal, tubular, spaced-apart metallic fuel tubes;
- pressurizing the reservoir;
- transferring hydroxide solution into the gas generating tank from said reservoir tank in response to pressure to start a gas generating reaction in said generating tank;
- selectively pressurizing said generating tank through said gas inlet to return hydroxide solution within the gas generating tank back into said reservoir to stop said reaction;
- humidifying hydrogen gas from said generating tank by passing it through a separate water tank;
- collecting humidified hydrogen gas from said separate water tank and delivering it to an application;
- during said reaction collecting waste at the bottom of said generating tank; and,
- periodically opening said generating tank to replace said fuel tubes and remove said waste.

22 (New). A method for generating hydrogen gas, the method comprising the steps of:

- providing a reservoir of solution comprising at least 25% potassium hydroxide by weight;
- heating the hydroxide solution within said reservoir to raise the temperature of the hydroxide solution to approximately 180 degrees Fahrenheit;
- providing an upright gas generating tank in fluid flow communication with said reservoir with a gas inlet defined in its top;
- equipping said generating tank with a plurality of internal, tubular, spaced-apart metallic fuel tubes;

pressurizing the reservoir;
transferring hydroxide solution into the gas generating tank from said reservoir tank in response to pressure to start a gas generating reaction in said generating tank;
selectively pressurizing said generating tank through said gas inlet to return hydroxide solution within the gas generating tank back into said reservoir to stop said reaction;
humidifying hydrogen gas from said generating tank by passing it through a separate water tank;
collecting humidified hydrogen gas from said separate water tank and delivering it to an application;
during said reaction collecting waste at the bottom of said generating tank; and,
periodically opening said generating tank to replace said fuel tubes and remove said waste.

23 (New). A method for generating hydrogen gas, the method comprising the steps of:

providing a reservoir of solution comprising at least 25% potassium hydroxide by weight;
heating the hydroxide solution within said reservoir to raise the temperature of the hydroxide solution to approximately 180 degrees Fahrenheit;
providing an upright gas generating tank in fluid flow communication with said reservoir with a gas inlet defined in its top;
equipping said generating tank with a plurality of internal, tubular, spaced-apart aluminum fuel tubes;
pressurizing the reservoir;
transferring hydroxide solution into the gas generating tank from said reservoir tank in response to pressure to start a gas generating reaction in said generating tank;
selectively pressurizing said generating tank through said gas inlet to return hydroxide solution within the gas generating tank back into said reservoir to stop said reaction;
humidifying hydrogen gas from said generating tank by passing it through a separate water tank;
collecting humidified hydrogen gas from said separate water tank and delivering it to an engine for powering it;
collecting the engine exhaust and condensing water from the exhaust;

returning water from said collecting and condensing step to said reservoir;
during said reaction collecting waste at the bottom of said generating tank; and,
periodically opening said generating tank to replace said fuel tubes and remove said
waste.